

## SizingPathGeneration(set1)

foreach leaf cell cella in set1

find all the half-operators in cella that are going to start a path, put in seta foreach half-operator hoa in seta

lsta is an empty list of half-operators

RecursivePaths(Ista, hoa)

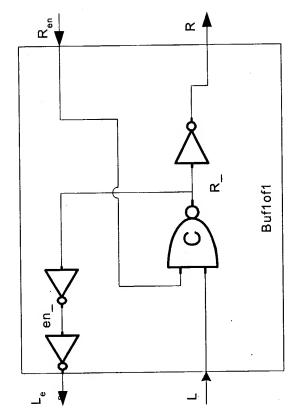
## RecursivePaths(lst1, ho1)

If (lst1 contains ho1) make sizing-path from lst1, then return // found cycle

If (ho1 drives an observable point) make sizing-path from lst1 and ho1, then return

foreach hoa that is driven by ho1 and has opposite driving direction of ho1

RecursivePaths(lst1+ho1, hoa)



300

Fig. 3

## CatPathGeneration(set1)

**Ista** is sorted list of mid-level cells in **set1**, from low to high (e.g. from mid to top levels) foreach cella in **Ista** 

 $/\!/\,N.B.$  an nonobservable sucells is a subcell which contains

// a nonobservable point

pop up paths from nonobservable subcells of cella to cella

find all the paths in cella that are going to start a cat-path, put in seta

foreach patha in seta

Ista is an empty list of paths

RecursiveCatPaths(Ista, patha)

## RecursiveCatPaths(lst1, path1)

if (lst1 contains path1) make cat-path from lst1, then return

// found cycle

if (last half-operator of path1 drives an observable point)

make cat-path from 1st1 and path1, then return

foreach patha that is driven by path1

RecursiveCatPaths(lst1+path1, patha)

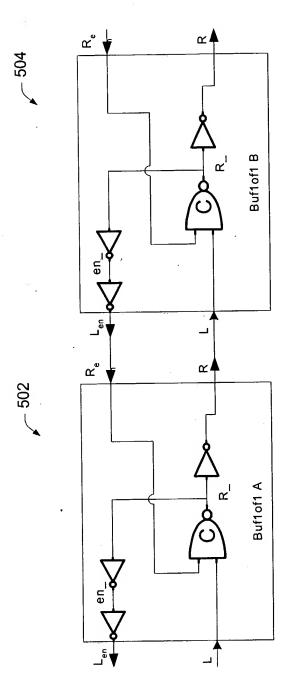


Fig. 5

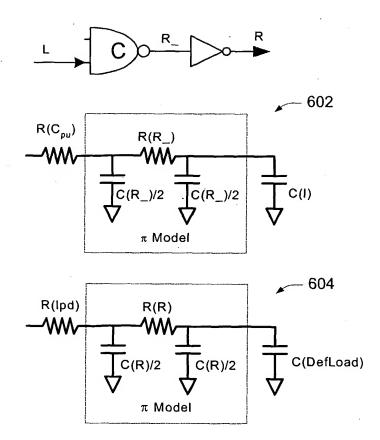
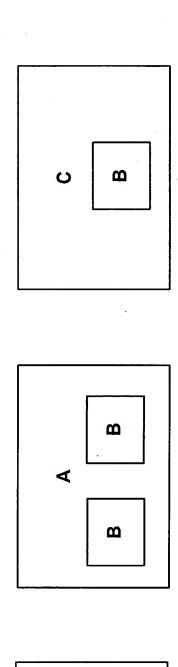


Fig. 6



 $\mathbf{\omega}$ 



